X4-TECH

# x-cept car mini

## Mobile DVB-T receiver

Instruction manual

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Dear customer,

thank you for deciding on purchasing this quality product from X4-TECH. This instruction manual will give you a general idea of how this device operates, as well as provide you with information on cleaning and safety procedures. Please take a few minutes to read and follow all safety and operating instructions found in this manual carefully, in order to maintain this products condition and ensure safe operation. Retain this instruction manual for future reference and pass it along with the device if handed over to a third party. Should you have any additional questions regarding the operation or installation of this device or should any suggestions arise, please contact a specialized dealer or our service team for further information. We look forward to you recommending us to others and hope you enjoy using this tuner with integrated RDS radio receiver from X4-TECH. Your X4-TECH Team

**All company and product names mentioned in this document are registered trademarks of their respective owners. All rights reserved.**

We assume no liability for damage occurred as a result of improper use or damage resulting from the failure to comply with the safety instructions found in this manual, improper operation or handling! Under such circumstances, all claims under warranty will become void. We assume no liability for consequential damage!

This product is EMV-certified and fulfils all European and National guideline requirements. A declaration of CE conformity has been established for this product. Certification has been documented and entrusted to the manufacturer.



# 1 Intended use

The X-Cept Car Mini is a receiver for mobile reception of digital DVB-T television. All common televisors are usable with it.

**Please adhere to all of the safety information/instructions found in this instruction manual!**

## Explanation of symbols

An exclamation mark is intended to inform the user of important information, operation or maintenance instructions or that special attention is required.

This symbol is intended to alert you to the presence of unprotected, live parts or components found within the product's enclosure or of dangerous connections that upon contact may be of sufficient magnitude to constitute a risk of electric shock. Cables intended for such connections should only be connected by qualified personnel or you should only use ready to connect cables. There are no user-serviceable parts found inside the device, therefore the device is never to be opened.

# Safety information 2

Dear customer,

the following safety and hazard warnings are not only for the protection of your device, but also serve as a protection against potential health hazards. Please take time to read the following instructions carefully.

**We assume no liability for personal or property damage resulting from the failure to comply with the safety instructions, improper operation and handling. Under such circumstances, all claims under warranty will become void.**

› For safety and licensing (CE) reasons any unauthorized modification and/or change on the device is prohibited and will void the warranty and all warranty claims.

› Any persons operating, installing, setting up, or servicing this device must be trained and qualified accordingly and observe these operating instructions.

› Ensure that the device has been set up accordingly by following all instructions found in the instruction manual.

› Power supply cables should be routed so that they are not likely to be walked on, squished or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point at which they exit from the device. Avoid exposing the cable to extreme heat or cold. Ignoring the above mentioned could result in cable damage and present the dangerous risk of electric shock.

› Should any evident damage be seen on the device or on the connection cables, do not come in contact with or touch these. Switch off the corresponding circuit breaker in the power distribution panel first, before carefully unplugging the power plug from the wall outlet. Do not operate this device further! Please contact or take it to a qualified service technician/specialty workshop.

› In order to completely cut off the power supply to the device, unplug the power plug from the wall outlet. Merely turning the device off with the ON/OFF button is not sufficient enough. Make sure that receptacles are easily accessible.

› Always pull on the plug's grips and never on the cable to remove from a wall outlet.

› Unplug the device from the power outlet, if it is not in use for a longer period of time.

› For safety reasons, always unplug the device from the power outlet during thunderstorms.

› Eliminate potential tripping hazards by routing cables in such a way that no one can trip or stumble over them.

› Never use the device, if the power cable or device is damaged.

**This device is not suitable for children under 3 years of age.**
Small children are unaware of the serious and immediate dangers involved when exposing themselves

to or handling electronic devices. Furthermore, this product contains small parts that could be swallowed. Keep packaging and protective foil away from children at all times to a void the danger of suffocation.

› The device should never come in contact with water or moisture.

› To prevent the risk of fire or electric shock make sure that liquids, such as dripping or splashing water, rain or moisture, do not come in contact with the device and power supply plug.

› Operate this device in a moderate climate and never expose it to extreme temperatures, such as high humidity.

› Condensation can build up suddenly, when this device is brought from a colder into a warmer area (e.g. when transporting). Should this happen, allow the device to warm up to room temperature first before using.

› Care should be taken that liquids do not come in contact with the interior, this is why containers containing liquids, e.g. bucket, vase or plants should never be placed anywhere near this product, power supply plug inclusive . This could not only damage the device, but also present a fire hazard.

› It is imperative to avoid contact with moisture, e.g. in the bathroom.



› Never touch the power plug with damp or wet hands. There is the risk of electric shock!

› Make sure the device is properly ventilated during operation and never operate it in constricted areas, such as for example in a bookcase or shelf. Never block ventilation openings with papers, magazines, blankets, curtains or similar.

› Make sure the device is placed on a firm and stable surface.

› Never place any sources of fire on top of or near the device and power supply plug (e.g. lighted candle).

› Please note that excessive sound pressure levels created when listening to loud volume levels with earphones or headphones can lead to permanent hearing damage.

› Please adhere to the additional safety information found in the individual chapters of this instruction manual.

› When connecting other devices, please refer to the safety and operating instructions found in the literature accompanying these devices.

› Do not operate this device while you are the driver. The distraction may cause accidents.

› Do not watch as driver television, movies, read texts or similar things on a screen. This may cause accidents.

› Please contact our technical hotline or a service technician for further information, should you be in doubt about device

operation, safety or when making connections or if any questions arise that are not explained within this manual.

› Contribute to a better environment by using a designated disposal system (e.g. Dual System in Germany) or recycling site for the disposal of packaging material.

## Before use

Please read this instruction manual thoroughly before operating this device and retain it for further reference, questions and use. Following and heeding all information found in this instruction manual shall maintain this products condition and ensure safe operation.

This instruction manual contains information on how to operate and maintain this device. Should a component require maintenance, servicing or repairs, then please consult a qualified dealer or service technician.



# Features

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› Mobile DVB-T reception
› Remote control
› Multilingual user manual (german and english)
› Supports teletext (TTX)
› Usable with all common televisors
› Supports electronic programme guide (EPG)
› Compact design

# The device

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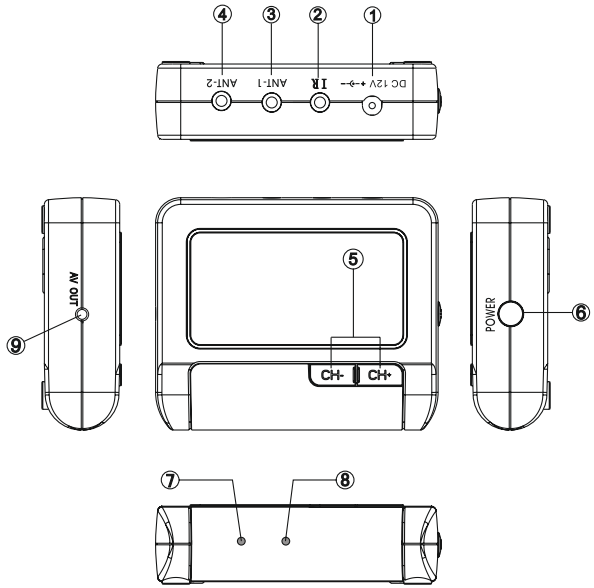
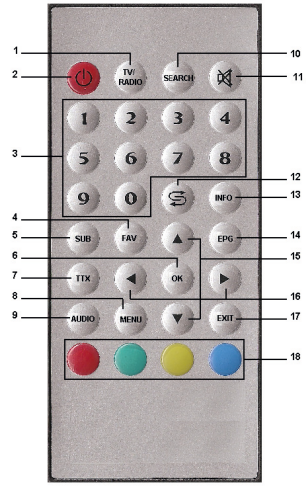



1. 12 V DC Power in jack
2. IR jack
3. Antenna 1 jack
4. Antenna 2 jack
5. CH+/– buttons
6. Power button
7. Power indicator
8. Remote sensor
9. AV out jack

## Remote control




1. **TV/RADIO**
   Switch between radio/TV
2. **POWER**
   Switch on or go to standby
3. **0 – 9**
   Select program or input appropriate parameters
4. **FAV**
   Enter or exit favorite program list. Using arrow up/down to change channel.
5. **SUB**
   Subtitle function set
6. **OK**
   Confirm; display the program list
7. **TTX**
   Enter or exit menu operation
8. **MENU**
   Displays main menu
9. **AUDIO**
   Left/right audio channel switch

10. **SEARCH**
    Research channels
11. **Mute**
    Mute or resume the volume
12. **Recall**
    Call back the previous channel
13. **INFO**
    Displays the information of programme or watch the operation guide
14. **EPG**
    Electronic programme guide
15. **Up/down arrow keys**
    Channel selection or move cursor up/down in menus
16. **Left/right arrow keys**
    Volume adjustment or move cusor left/right in menus
17. **EXIT**
    Exit current menu
18. **Colour buttons red, green, yellow, blue**
    Special function keys referring to function on menus



## Batteries

The remote control uses a battery type 3 V CR2025.

› The battery compartment is at the downside of the remote control.

Keep batteries out of children's reach.

› Batteries are hazardous waste and do not belong in household waste.

› Always remove batteries when the remote control is not in use for longer periods of time.

› Never leave batteries lying around unsupervised. These could pose a choking hazard to children and pets if swallowed. Seek emergency medical care immediately, should this happen.

› Never expose batteries to extreme temperatures, such as sunlight, fire, ovens, etc. there is the risk of explosion!

› Make sure that batteries are not dismantled, short-circuited or are thrown into fire. Never recharge non-rechargeable batteries. There is a risk of explosion!

› Always follow manufacturer instructions, when recharging rechargeable batteries.

› Touching leaking or damaged batteries could cause skin burns. Use protective gloves suitable for handling such batteries.

› Always ensure that the device has been turned off after use.

› Always change/replace all batteries at the same time.

› Clean battery and device contacts before inserting, where required.

Dear Customer!

**Note:**
**Do not throw batteries and rechargeable batteries into household waste!**

Consumers are legally obligated to return used and rechargeable batteries, whether they contain harmful substances* or not, to designated recycling areas, disposal sites, or stores where batteries/ rechargeable batteries can be bought. By doing so, you are fulfilling all legal battery recycling and disposal obligations and are contributing to a better enviroment. Make sure batteries are completly discharged before disposing!

*) marked with Cd = cadmium Hg= mercuric Pb= lead



# Connection

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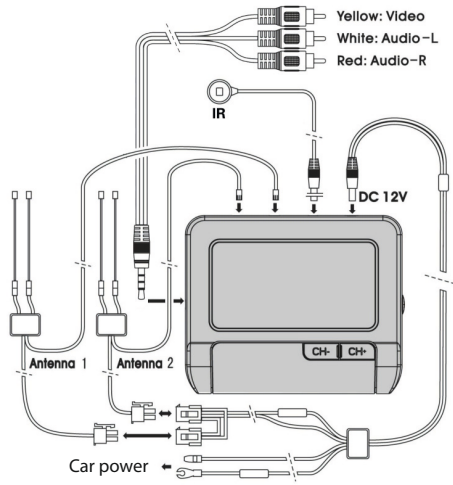


Please comply to the following steps completely to connect the product:
1. Connect the cables to your car.
2. Connect this unit with your TV using the AV cable.
3. Insert the antennas.
4. Insert the IR cable into IR socket (optional).
5. Insert the DC power plug.

# Operation

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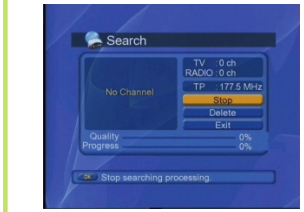
## First time installation

If you use this unit, TV will display as following:

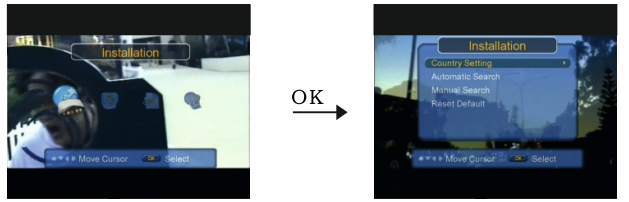
› Press „OK“.
› Press „arrow up/down“ to select your country, then press „OK“.
› Press „EXIT“ button to return the upon interface.
› Press „arrow up/down“ button to select „automatic search“.



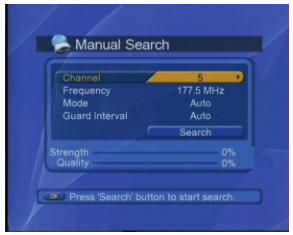

› Press „OK“ button to start search.
› When you finished search (Save icon is lighted), press „OK“.

## Manual search

› Press „MENU“.



› Select „Manual Search“ and press „OK“.




› Press „OK“.
› Press „arrow up/down“ to select channel or frequency input way.
› Press „OK“ button to confirm.
› Press „arrow up/down“ to select Search icon, then press „OK“ button.
› When you finished search (Save icon is lighted), press „OK“ button.

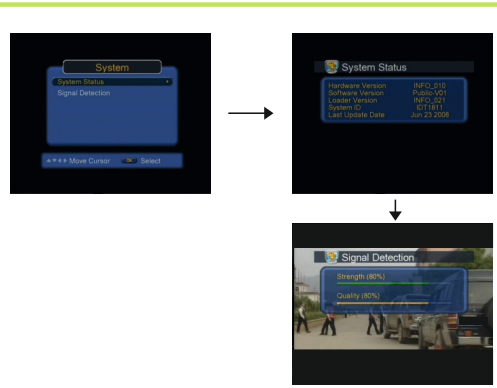
## Reset default

› On the Installation interface, select „reset default“ and press „OK“ button.

› Press „arrow left or right button“ to select „Yes“ or„ No“, then press „OK“ button to confirm.

## System

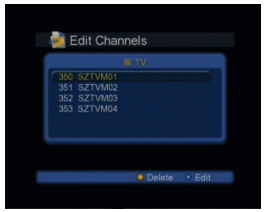
› In this interface, you can see some informations of this unit and the signal that you are watching.

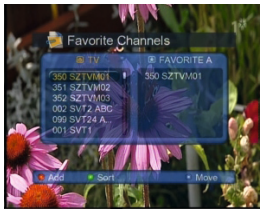


## Edit and favorite channels

› On the main menu interface, press the „arrow left or right“ button to select „Channel List“ and press „OK“ button to confirm.

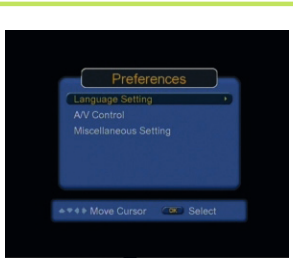
› Press „arrow up/down“ to select „Edit “or „Favorite Channels“, press „OK“ button to confirm. Please refer to the guide on the screen.




## Language setting, AV Control setting, Miscellaneous setting

› On the main menu interface, press the „arrow left or right“ button to select „Preferences“ and press „OK“ button to confirm.




› Press „arrow up/down“ to select „Language Setting“, then press „OK“ button.

› Press „arrow up/down“ to select the „Item“ you want to set, then press „OK“ button.

› Press „arrow up/down“ to select the „Language“ that you want and press „OK“ button to confirm.

› Using the same method, you can set the parameters of audio, video and else. Do not attempt to change PID-Informations of channels! This can circumvent the reception of channels!

# Troubleshooting 7

The device you have just purchased is equipped with state-of-the-art technology and is safe to operate. Nevertheless, problems or malfunctions may occur.

Before contacting a service technician, refer to the following possible solutions:

| Problem | Solution |
|---|---|
| No or bad signal | The aerial is not pointing properly.<br>› Adjust aerial.<br>› Check the cable from the aerial.<br>› If you can not solve the problem you may need to have your aerial and installation tested by a professional. |
| The channel is scrambled or not available. | The channel has signal, but no audio or video.<br>› Confirm the channel is currently on air.<br><br>The channel is for data broadcasting.<br>› Cannot watch the channel in the usual way. |
| The audio is not available. | The channel has signal, but not audio.<br>› Press the red button to confirm if the channel has audio. |
| The Antenna cable is short circuited. | Antenna cable is shorten.<br>› Replace antenna.<br><br>Antenna in port is inserted by alien substance or damaged.<br>› Remove the alien substance and contact local service center. |

# Maintenance and cleaning

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Carry out a technical safety inspection on a regular basis, e.g. check if the power cable or housing may have become damaged.
If there is reason to believe that the device can no longer be operated safely, then disconnect it immediately from the power supply and secure it against any unintentional operation. Carefully remove the power cable plug from the wall outlet and where applicable switch off the corresponding circuit breaker first.

It can be assumed that safe operation is no longer possible, if:
› there is visible damage to the device or power cable, the device no longer works, it has been stored for a longer period of time under unfavorable conditions or exposed to rigorous transport conditions.

Always adhere to the following safety instructions before cleaning and maintenance:

Live parts may be exposed, if the covering is opened or parts are removed.

› The device must be disconnected from the power supply source prior to service, maintenance or repairs.

› Repairs are only to be carried out by qualified personnel, who are familiar with the hazards involved and the relevant regulations.

**Transporting or sending the device**
Please retain the original box and the packaging material in case you need to transport or send the device out for maintenance at a later date. Please note that the device should be repacked in the original packaging. The box and packaging have been especially developed for this device in order to protect it during transport and against damage. Retain this instruction manual for future reference and where required pass it along with the device if handed over to a third party. It contains important information on initial operation and handling.

**Keeping the external case clean**
Never use volatile fluids near the device, as for example insect spray. Avoid letting the device come in contact with rubber or plastic products for longer periods of time. These could otherwise leave marks behind.

**Cleaning the device**
Unplug the power cable before cleaning. Always use a soft and dry cloth to clean the unit's exterior. If the device is extremely dirty you can use a soft cloth, dampened with water or a mild cleaning solution to clean. Never use any abrasive or harsh cleaning agents (e.g. alcohol, benzine or thinners) as these could damage the controls, casing or any markings and labels found on the device.

Dear Customer!

Important Notice:

**Please note that electrical and electronic devices must never be disposed of in regular household waste!**

Consumers are legally obligated and responsible for the proper disposal of electronic and electrical devices by returning them to collection sites designated for the recycling of electrical and electronic equipment waste after the useful lifetime of a device has come to an end. For more information concerning collection sites and correct disposal, please contract your local authority or waste management company. The presence of the above symbol on a device, on its packaging or within the instruction manual indicates that this item must not be disposed of in normal unsorted municipal waste.
In doing so, you are fulfilling all recycling and disposal obligations and are optimizing and contributing to a better environment. These disposal regulations apply to battery/rechargeable battery disposal as well. Most batteries contain hazardous chemicals which can contaminate the environment and human health, if they are discarded in ordinary household waste. According to legislation, batteries are to be returned to the place of purchase, disposed of at designated recycling areas or disposal sites.

# Specifications

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## Technical data

› Transport stream: ISO/IEC 13818
› Video decoding: MPEG-2 MP@ML
› Input frequency: VHF, UHF
› Input impedance: 75 unbalanced
› COFDM spectrum : 2K and 8K mode
› Guard interval: 1/32, 1/16, 1/8 und 1/4
› Demodulation method: QPSK, 16QAM, 64QAM
› Resolution: 720 x 576 (PAL), 720 x 480 (NTSC)
› Audiotypes: ingle channel, dual channel, joint stereo, stereo
› Aspectratio: 4:3, 16:9
› Audio sampling rate: 32 KHz, 44.1 KHz and 48 KHz
› Audio decoding: MPEG-1 layers I & II
› Connection terminals: 2 x antenna in jacks, 3,5mm AV out jack, IR in jack, 12 V power supply
› Power consumption: about 5 W (about 0,1 W in standby)
› Power supply: 12 V/6 W
› Dimensions: 90 x 77 x 26 mm
› Weight: about 80 g

## Delivery contents

› X-Cept Car Mini › Remote control › 3 m IR extension cable
› 3 m power cable set › 2x 3m active antenna cable set
› 1,5 m AV cable set (1x 3,5 mm auf 3 x cinch) › Multilingual user manual (german and english) › Service data sheet

## Service

Should questions arise then please contact a specialist or our service hotline:

Hotline: +49 (0) 53 02/8 06-450
Address: x-services.eu gmbh
Service department X4-TECH
Brackestraße 3 · 38159 Vechelde/Germany

Information and updates: http://www.x4-tech.de

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› X4-TECH assumes no responsibility or liability for any errors or inaccuracies that may appear in this instruction manual.

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